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MODIS.DATA.TEAM  
oj: MODIS SDST Minutes 01/10/92

MODIS Science Data Support Team (SDST) Meeting Minutes 01/10/92

TENDEES: Lloyd Carpenter RDC 982-3708  
Al Fleig 900 286-7747  
Harold Geller MCST/RDC 982-3740  
Tom Goff RDC 982-3704  
Rick Hatfield CSC 464-7400X7556  
Lou Kouvaris Hughes 464-7365  
Ed Masuoka 920 286-7608  
Al McKay RDC 982-3720  
Jim Ormsby 974 286-6811  
Lalit Wanchoo STX 513 1682  
Wil Webster 920.2 286-4506

XT MEETING:	Date	Time	Building	Room
	Friday, January 17	10:00 am	22	G95

PICS:

SOFTWARE GUIDELINES: Lloyd Carpenter reported on a meeting he had with Frank McGarry, Goddard Code 552. McGarry emphasized the importance to the project of

- 1) defining the process for construction of software,
- 2) defining the process for integrating and rehosting software, and
- 3) defining the process for verification, maintenance and testing of software.

Garry provided copies of three pertinent Software Engineering Laboratory (SEL) documents:

Manager's Handbook for Software Development, Revision 1, SEL-84-101, November 1990,

Recommended Approach to Software Development, SEL-81-205, April 1983, (Major revision due for completion in March, 1992),

An Approach to Software Cost Estimation, SEL-83-001, February 1984.

Multiple copies of these documents are available from Code 552.

Carpenter also reported on a meeting he had with Warren Wiscombe, Goddard Code 613. Wiscombe has had extensive experience in software mining, rehosting, modifying and maintaining numerical

deling software generated by other scientists. His ideas are  
ressed in his "Principles of Numerical Modeling with Examples  
n Atmospheric Radiation". Carpenter adapted these principles  
he draft version of the "MODIS SDST Guidelines for MODIS Team  
mbers Science Algorithms" contained in the handout. Wiscombe  
o provided information on TOOLPACK 1 Release 2.5 Fortran 77  
tware tools, and the FORTRAN-lint (trade mark) Source Code  
alyzer for UNIX based Operating Systems. These programming  
ls assist in the production, debugging, testing, maintenance,  
l transporting of Fortran 77 software.

opies of the report "A Method for Assessing the Software  
gineering Capability of Contractors" were provided to Al Fleig  
l Wil Webster. This is a 1987 preliminary version of a report  
pared by the Software Engineering Institute of Carnegie Mellon  
iversity for the Department of Defense.

SOFTWARE DEVELOPMENT: Tom Goff is using his file dumping  
ity as a test case for determining the legal aspects of  
ting source or executable code for public access, copyright  
tection, code ownership, etc. (See more on this below.)

o anonymous FTP account on the LTPIRIS2 computer is being  
verted to group ownership for the convenience of MODIS users.

ff is working on porting Mike King's cloud computer code and  
a sets to the IRIS. The program compiles without errors, but  
eral changes are needed before it will execute. Most of the  
nges are related to the IBM-unique Input/output (I/O)  
ctions and Job Control Language (JCL) usage. Modifications in  
rnal documentation and style will help bring the code into  
formance with the proposed SDST guidelines.

SOFTWARE LEGAL CONCERNS: Ron Sandler and colleagues from the  
ddard Office of Patent Counsel and the Office of Chief Counsel  
re to the meeting, in response to a request from Tom Goff, to  
uss software legal concerns. Generally, software developed  
for Goddard must go into COSMIC, but management can make an  
eption, depending on the circumstances. Computer software  
eloped by/for Goddard is government property, and, by the  
ice Act, we can't give it away. Here again, there are special  
es and circumstances. The copyright to code developed by a  
tractor employee belongs to the contracting company, but the  
tract may require that the copyright be assigned to the  
overnment (NASA). Sandler will work on a standard  
pyright/disclaimer" clause to accompany all MODIS SDST  
tware.

MODIS SDST FACILITIES: Al McKay presented a preliminary draft  
sion of the MODIS SDST Facilities: Functional Requirements and  
ar-Term Plans. A copy is included in the meeting handout.

## TION ITEMS:

30/91 [Lloyd Carpenter and Team]: Draft a schedule of work the next 12 months. Include primary events and milestones, documents to be produced, software development, MAS support, etc. STATUS: Open. Due date 09/27/91.

06/91 [Liam Gumley]: Investigate a cataloguing scheme for the MAS data. Consider the Master Catalogue, PLDS and PCDS. STATUS: Open. Due date 02/14/92.

06/91 [Liam Gumley, Tom Goff, Ed Masuoka]: Develop a plan for archiving and distributing MAS data. STATUS: Open. Due date 02/14/92.

03/92 [Ed Masuoka]: Check on the UCAR "copyright" as a first step in standardizing an SDST software copyright statement for public sharing. Check with legal. (A report was made at the meeting. Legal is developing the statement.) STATUS: Open. Due date 02/14/92.

03/92 [Team]: Get a "long arc" of high-resolution AVHRR data for study of time correlations of pointing errors. STATUS: Open. Due date 02/14/92.

03/92 [Team]: Check on the set of software engineering tools available in Code 530 to see if any of these would be of use to SDST. (A report was made at the meeting.) STATUS: Open. Due date 02/14/92.